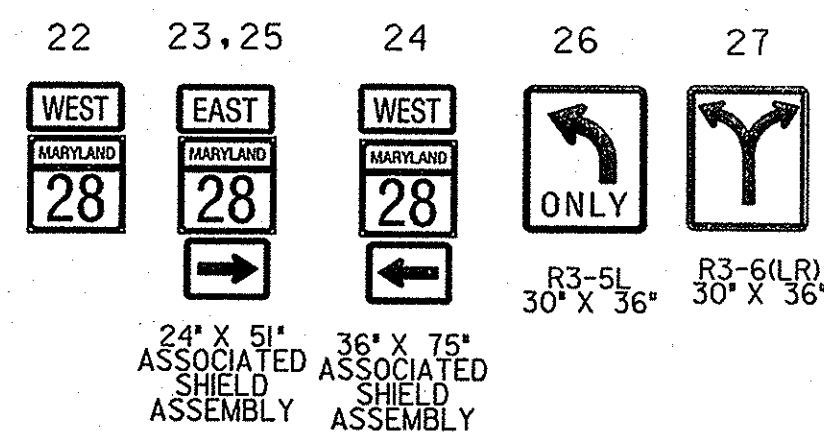
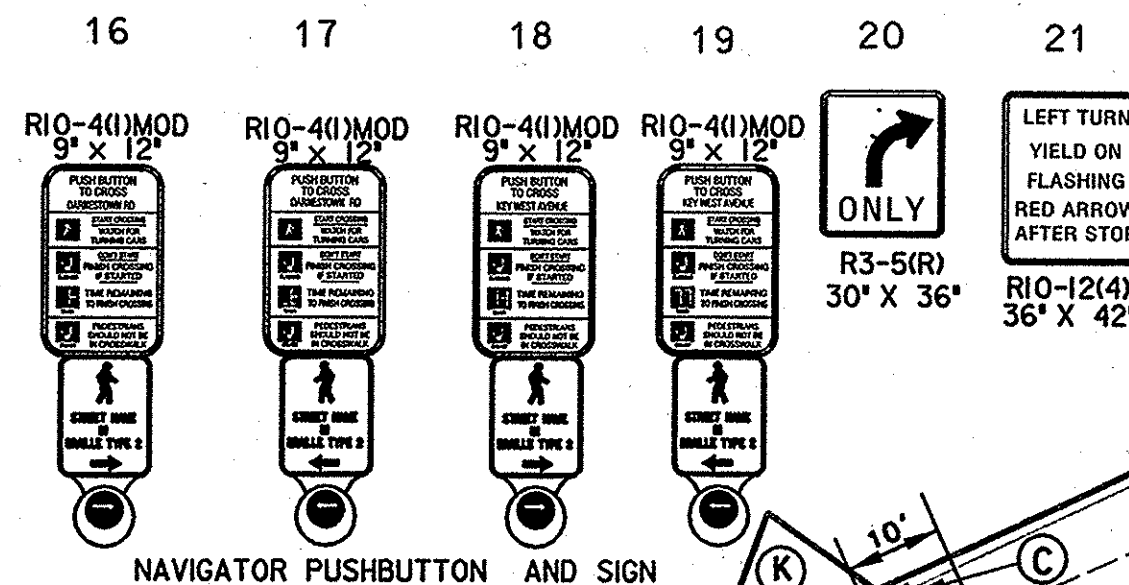


## EXISTING SIGNS

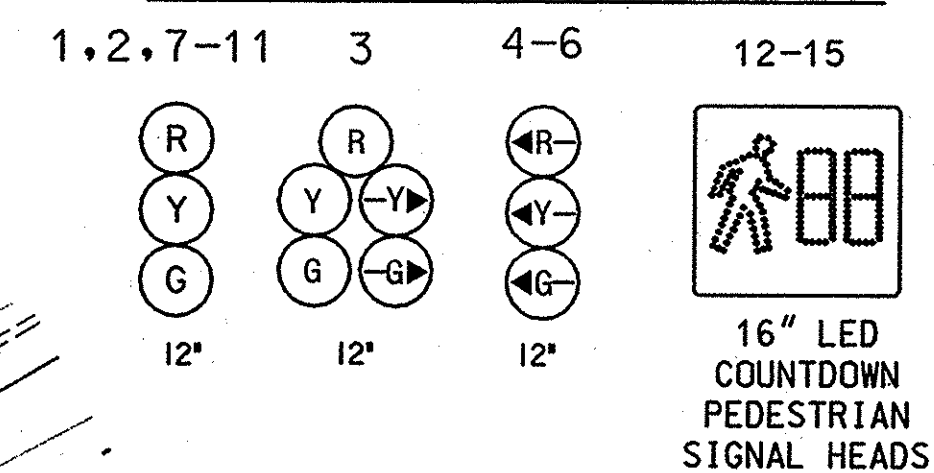


a, b, c  
 a. EXISTING VIDEO DETECTION CAMERA  
 VIDEO DETECTOR ZONE

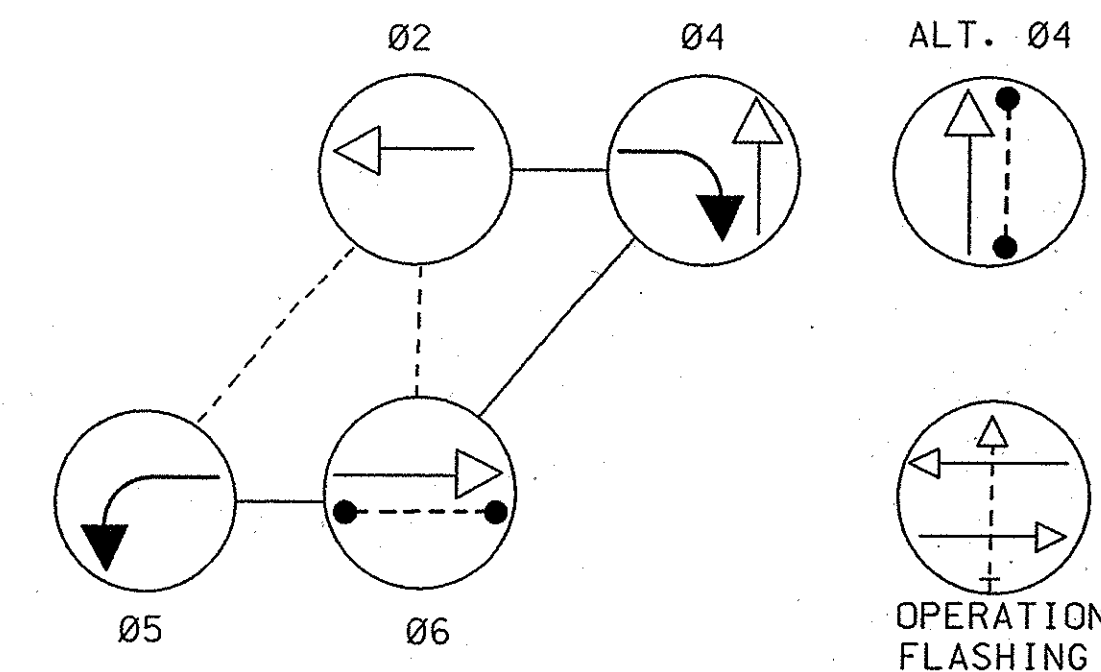
## PROPOSED SIGNS



## PROPOSED LED SIGNAL HEADS



## NEMA PHASING



DETECTABLE WARNING SURFACE

NOTE:  
 ALL EXISTING TRAFFIC SIGNAL HEADS SHALL BE REPLACED WITH LED SIGNAL HEADS.

NOTE:  
 PHASES ASSOCIATED BY A DASHED LINE WILL OPERATE CONCURRENTLY.  
 PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.

## GENERAL NOTES:

1. ALL UNDERGROUND UTILITIES SHOWN ON THE PLAN ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING "MISS UTILITY" PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR IDENTIFIES A CONFLICT BETWEEN THE UTILITIES AND THE SIGNAL EQUIPMENT, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
2. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03; MD 818.01; MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
3. THE CONTRACTOR SHALL PURCHASE AND DELIVER NAVIGATOR CENTRAL CONTROL UNIT FOR THE CONTROLLER TO SHA SIGNAL SHOP AT 7491 CONNELLEY DRIVE, HANOVER MD 21076. MR EDWARD RODENHIZER AT 410-787-7652 SHALL BE CONTACTED AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE DELIVERY.
4. CONTACT MCDPW&T TMC @ 240-777-2100 (72) HOURS IN ADVANCE PRIOR TO MARKING UNDERGROUND SIGNAL EQUIPMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABELING EACH CABLE. REMOVE EXISTING UNUSED CABLES.
6. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING MR. EDWARD RODENHIZER, CHIEF OF SIGNALS, OPERATION AT 410 787 7652 TO COORDINATE THE INTERNAL WIRING OF THE CONTROLLER/CABINET. A SEVENTY - TWO (72) HOUR PRIOR NOTICE IS REQUIRED.

## CONSTRUCTION DETAILS

- A. USE EXISTING HANDHOLE. REMOVE UNUSED EXISTING CABLES.
- B. USE EXISTING CONDUIT. REMOVE UNUSED EXISTING CABLES
- C. INSTALL ELECTRICAL HANDHOLE.
- D. DETECTION ZONE FOR VIDEO CAMERA.
- E. INSTALL 2' DETECTABLE WARNING SURFACE.
- F. INSTALL 10' PEDESTAL POLE WITH BREAKAWAY BASE, LED COUNTDOWN PEDESTRIAN SIGNAL HEADS, NAVIGATOR AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS. (NOTE 1-3" 90° PVC BEND).
- G. USE EXISTING SIGNAL STRUCTURE AND SPAN WIRE. REMOVE EXISTING TRAFFIC AND PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGNS. INSTALL THE PROPOSED LED TRAFFIC SIGNAL HEADS TO THE SPAN WIRE AND ADJUST EXISTING VIDEO CAMERA 'G'.
- H. USE EXISTING SIGNAL STRUCTURE AND SPAN WIRE. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGNS. INSTALL 3 INCH WEATHER HEAD, THE PROPOSED LED TRAFFIC, COUNTDOWN PEDESTRIAN SIGNAL HEADS, NAVIGATION AUDIBLE PEDESTRIAN PUSHBUTTON AND SIGNS.
- J. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - SLOTTED.
- K. INSTALL 3" SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED.
- L. USE EXISTING SPAN WIRE. REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL THE PROPOSED LED SIGNAL HEADS.
- M. INSTALL 4" SCHEDULE 80 RIGID PVC CONDUIT - BORED.
- N. USE EXISTING SPAN WIRE. REMOVE EXISTING TRAFFIC SIGNAL HEAD AND INSTALL THE LED TRAFFIC SIGNAL HEAD.
- O. SAMPLING DETECTION ZONE FOR VIDEO CAMERA.
- P. USE EXISTING CABINET AND CONTROLLER MODIFIED FOR PHASING CHANGES.
- Q. USE EXISTING POLE. REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON AND SIGNS.
- R. REMOVE EXISTING TRAFFIC SIGNAL HEADS AND INSTALL THE PROPOSED LED TRAFFIC SIGNAL HEADS.

## GEOMETRIC LEGEND

===== EXISTING  
 ----- PROPOSED

## UTILITY LEGEND

---SD--- STORM DRAIN  
 ---G--- GAS MAIN  
 ---W--- WATER MAIN  
 ---S--- SEWER MAIN  
 ---E--- ELECTRIC CABLES  
 ---A--- AERIAL CABLES  
 ---T--- TELEPHONE CABLES  
 ---F--- FIBER-OPTIC

**CENTURY**  
 ENGINEERING

CONSULTING ENGINEERS - PLANNERS  
 10710 GILROY ROAD  
 HUNT VALLEY, MD 21031  
 Phone: (410) 823-8070 Fax: (410) 823-2184

REVISION 'D'

25003.37

TOD No.: AT782-55  
 SHA No.: MO574A54/B54  
 MD 28 @ Darnestown Road

## REVISIONS

© 18/85 SHA AT 7825185 TMS 11518  
 INSTALL WB EXCLUSIVE LEFT TURN,  
 RIGHT TURN AND APS COUNTDOWN PEDS  
 H.O. [Signature]  
 C 18-5-2884 TMS 6562  
 ACCIDENT REPAIRS  
 SHA, CONT. NO. 072893  
 S.M.H.  
 B 18-08 NEW  
 MD 28 GEOMETRICS  
 SHA, CONT. NO. MD 5285271  
 Q.X. [ ] D.Z. [ ] B.K. [ ] T.H. [ ]

PLOTTED: #DATE#  
 FILE: #FILE#

**SHA**

STATE OF MARYLAND  
 DEPARTMENT OF TRANSPORTATION  
 STATE HIGHWAY ADMINISTRATION  
 OFFICE OF TRAFFIC & SAFETY  
 TRAFFIC ENGINEERING DESIGN DIVISION

MD 28 (KEY WEST AVENUE) AND  
 DARNESTOWN ROAD

## SIGNAL PLAN

SCALE 1" = 20' DATE 6-13-85 CONTRACT NO. AT7825185

DESIGNED BY WWC/TEL COUNTY MONTGOMERY  
 DRAWN BY WWC/TEL LOGMILE 15002818.19  
 CHECKED BY JOHN C. RICE T.I.M.S. NO. H518  
 F.A.P. NO. TOD NO.

TS NO. 26400 DRAWING - OF SHEET NO. 1 OF 2

H518